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0	fferor)	from	with the above, the undersi the date for receipt of offer	igned agrees, if th rs specified above,	is offer is accepted wit to furnish any or all ite	thin ms upon	whic	h pric	es are of	alendar days <i>(60</i> ffered at the price	calendar da set opposite e	<i>tys unless</i> ach item, de	a <i>differen</i> elivered at th	<i>t period</i> e designat	is inserted point(s	ted by the
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PART I - THE SCHEDULE SECTION B SUPPLIES OR SERVICES AND PRICES/COSTS

B-1 SUPPLIES/SERVICES AND COSTS

ITEM Number	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED CO PLUS FIXED FE	
0001	The Contractor shall provide research and development in accordance with Section C	·			
0001AA	Interactive Graphical User Interface Controlled Data Acquisition System (DAS) and Graphical User Interface Software Controlled Archival System (4 channels/2 collections)	\$ on		\$	\$
0002	Technical Support	*NSP		*NSP	*NSP
0003	Data in accordance with Exhibit A (DD 1423)	* NSP		* NSP	* NSP
OPTIONAL I	TEMS				
0004	Remaining Data Collection Boards (Maximum of 12 Channels/maximum of 6 Boards) as described in the SOW paragraph 3.2 (c).	\$		\$	\$
0005	Field Programmable Gate Array (FPGA) as described In the SOW paragraph 3.3 (b)	\$		\$	\$
0006	List of Spares as described in the SOW paragraph 3.1 (h)	\$		\$	\$
TOTAL EST	MATED COST PLUS FIXED	\$		\$	\$

^{*} Not Separately Priced

SECTION C DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

C-1 STATEMENT OF WORK

The work and services to be performed hereunder shall be subject to the requirements and standards contained in Attachment (1), Statement of Work, with Exhibit A, Contract Data Requirements List, and all other Attachments cited in Section J, which are incorporated by reference into Section C.

SECTION D PACKAGING AND MARKING

D-1 PACKAGING AND MARKING

Preservation, packaging, packing and marking of all deliverable contract line items must conform to normal commercial packing standards to assure safe delivery at destination.

SECTION E INSPECTION AND ACCEPTANCE

E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE

FAR CLAUSE TITLE

52.246-8 - Inspection Of Research And Development - Cost Reimbursement (MAR 2001)

DFARS CLAUSE TITLE

252.246-7000 - Material Inspection And Receiving Report (DEC 1991)

E-2 INSPECTION AND ACCEPTANCE

Inspection and acceptance of the final delivery will be accomplished by the Technical Manager (TM) or Contracting Officer Representative (COR) designated in Section G of this contract. Inspection and acceptance will be performed at the Naval Research Laboratory, Washington DC 20375-5320.

Constructive acceptance in accordance with FAR 32.904 shall be deemed to have occurred on the $14^{\rm th}$ day after the final delivery.

SECTION F DELIVERIES OR PERFORMANCE

F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:

FAR CLAUSE TITLE

52.242-15 - Stop-Work Order (AUG 1989) - Alternate I (APR 1984)

52.247-34 - F.O.B. Destination (NOV 1991)

F-2 PERIOD AND PLACE OF PERFORMANCE

- (a) The work under this contract shall commence on the date of contract award and be completed no later than five (5) months thereafter. Delivery of option items if exercised, shall be made within 30 days after option exercise.
- (b) The principal place of performance of this contract shall be at the contractor's facility.

F-3 PLACE OF DELIVERY - FOB DESTINATION

The contractor shall deliver supplies, all transportation charges paid, to destination in accordance with the clause in Section F of the Schedule titled FAR 52.247-34 FOB Destination (NOV 1991).

Receiving Officer

Naval Research Laboratory

Contract Number

ATTN:

CODE:

LOCATION:

Blda, 49

4555 Overlook Avenue, SW

Washington DC 20375-5320

(* To be filled in at time of award.)

SECTION G CONTRACT ADMINISTRATION DATA

G-1 PROCURING OFFICE REPRESENTATIVE

In order to expedite administration of the contract, the Administrative Contracting Officer (ACO) will direct inquiries to the appropriate office listed below. Please do not direct routine inquiries to the person listed in Item 20A on Standard Form 26.

Contract Matters- *

Security Matters-*

Safety Matters- *

Patent Matters-*

Release of Data- *

The ACO will forward invention disclosures and reports directly to the Associate Counsel for Patents, Code 1008.2, Naval Research Laboratory, Washington DC 20375-5320. The Associate Counsel for Patents will return the reports along with a recommendation to the Administrative Contracting Officer. The Associate Counsel for Patents will represent the Contracting Officer with regard to invention reporting matters arising under this contract.

(* To be completed at time of award)

G-2 CONTRACTING OFFICER'S REPRESENTATIVE (COR) - FUNCTIONS AND LIMITATIONS

* is hereby designated the cognizant COR who will represent the Contracting Officer in the administration of technical details within the scope of this contract and inspection and acceptance. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or change the specifications in the contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statements of work, a modification must be issued in writing and signed by the Contracting Officer. The COR is responsible for reviewing the bills and charges submitted by the Contractor and informing the ACO of areas where exceptions are to be taken.

(* To be completed at time of award)

G-3 ONR 5252.242-9718 - TECHNICAL DIRECTION (FEB 02)

- (a) Performance of the work hereunder is subject to the technical direction of the Scientific Officer/COR designated in this contract, or his duly authorized representative. For the purposes of this clause, technical direction includes the following:
 - (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise serves to accomplish the objectives described in the statement of work;
 - (2) Guidelines to the Contractor which assist in the interpretation of drawings, specifications or technical portions of work description.
- (b) Technical direction must be within the general scope of work stated in the contract. Technical direction may not be used to:
 - (1) Assign additional work under the contract,
 - (2) Direct a change as defined in the contract clause entitled "Changes";
 - (3) Increase or decrease the estimated contract cost, the fixed fee, or the time required for contract performance; or
 - (4) Change any of the terms, conditions or specifications of the contract.
- (c) The only individual authorized to in any way amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical direction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten working days after its receipt. The Contractor

shall not proceed with the work affected by the technical direction until the Contractor is notified by the Contracting Officer that the technical direction is within the scope of the contract.

(d) Nothing in the foregoing paragraphs may be construed to excuse the Contractor from performing that portion of work statement which is not affected by the disputed technical direction.

G-4 SUBCONTRACTORS/CONSULTANTS

- (a) Advance notification or requests for consent pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2) shall be directed to the cognizant administrative contracting officer (ACO).
- (b) The following subcontractors/consultants have been identified in the Contractor's proposal as necessary for performance of this contract:

Subcontractor/Consultant Name

Estimated Cost

(Paragraph (b) will be included and filled in at time of award if subcontractor/consultants are proposed by the successful offeror)

G-5 NAPS 5252.232-9001 - SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE (JUL 1992)

- (a) "Invoice" as used in this clause includes contractor requests for interim payments using public vouchers (SF 1034) but does not include contractor requests for progress payments under fixed price incentive contracts.
- (b) The Contractor shall submit invoices and any necessary supporting documentation, in an original and <u>4</u> copies, to the contract auditor at the following address:

(To be completed at time of award)

unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order. In addition, an information copy shall be submitted to [See Section G for designated COR]. Following verification, the contract auditor will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clause(s) of this contract.

- (c) Invoices requesting interim payments shall be submitted no more than once every two weeks, unless another time period is specified in the Payments clause of this contract. For indefinite delivery type contracts, interim payment invoices shall be submitted no more than once every two weeks for each delivery orders. There shall be a lapse of no more than 30 calendar days between performance and submission of an interim payment invoice.
- (d) In addition to the information identified in the Prompt Payment clause herein, each invoice shall contain the following information, as applicable:
 - (1) Contract line item number (CLIN)
 - (2) Subline item number (SLIN)
 - (3) Accounting Classification Reference Number(ACRN)
 - (4) Payment terms
 - (5) Procuring activity

	(6) Date supplies provided or services performed
	(7) Costs incurred and allowable under the contract
	(8) Vessel (e.g., ship, submarine or other craft) or system for which supply/service is provided
(e)	A DD Form 250, "Material Inspection and Receiving Report",
	is required with each invoice submittal.
	is required only with the final invoice.
	is not required.
(f)	A Certificate of Performance
	shall be provided with each invoice submittal.
	is not required.
(g)	The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any)
nrai	viously tandared under this contract

previously tendered under this contract.

(h) Cost of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLIN/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

G-6 PAYMENT OF FIXED FEE (COMPLETION FORM)

The fixed fee set forth in Section B of this contract shall be payable on completion of the work and services required under each CLIN of this contract and their acceptance on behalf of the Government. However, the contractor may bill on each voucher the amount of the fixed fee bearing the same percentage to the amount of cost billed as the total fixed fee bears to the total estimated cost set forth in Section B, subject to the contract clause entitled "Fixed Fee" (FAR 52.216-8). If the fixed fee is reduced pursuant to any clause or requirement of this contract and the reduced fee is less than the sum of all fee payments made to the contractor under this contract, the contractor shall repay the difference to the Government. The total fee paid the contractor shall not exceed the fixed fee set forth in Section B.

G-7 INCREMENTAL FUNDING

Pursuant to the Limitation of Funds clause (FAR 52.232-22), the total amount allotted to this contract is \$* and it is estimated that this amount is sufficient for contract performance through *. (*this provision will be included and completed at time of award, if applicable)

G-8 INFORMATIONAL SUBLINE ITEMS

It is anticipated that the research and development services performed under this contract will be paid for from multiple sources of funds. Informational subline items will be established as necessary to identify each accounting citation classification.

PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS G-9 (COST-REIMBURSEMENT)

The purpose of these instructions is to permit the paying office to charge the accounting classification citations in the contract in a manner that reflects the performance of the contract. These instructions

do not create any obligation on the part of the Government or the contractor nor do they in any way alter any obligation created by any other provision of the contract. Invoices should be paid from available ACRNs in the following order:

- (a) ACRNs cited on the contractor's invoice.
- (b) On a proportional basis from any ACRNs assigned to funds which will cancel at the end of the current fiscal year.
- (c) The ACRN assigned to accounting station 000173.
- (d) If funds appropriated in more than one fiscal year are allotted to the contract, the ACRN assigned to the oldest allotment of funds.
- (e) On a proportional basis from all ACRNs assigned to allotments of funds appropriated in a single fiscal year.

SECTION H SPECIAL CONTRACT REQUIREMENTS

H-1 TYPE OF CONTRACT

This is a *

(*To be completed at time of award)

H-2 ONR 5252.237-9705 - KEY PERSONNEL (DEC 88)

- (a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this clause.
- (b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least thirty (30) days in advance (sixty (60) days if security clearance must be obtained) of any proposed substitution and provide the information required by paragraph (c) below.
- (c) Any request for substitution must include a detailed explanation of the circumstances necessitating the proposed substitution, a resume for the proposed substitute, and any other information requested by the Contracting Officer. Any proposed substitute must have qualifications equal to or superior to the qualifications of the incumbent. The Contracting Officer or his/her authorized representative will evaluate such requests and promptly notify the Contractor of his/her approval or disapproval thereof.
- (d) In the event that any of the identified key personnel cease to perform under the contract and the substitute is disapproved, the contract may be immediately terminated in accordance with the Termination clause of the contract.

The following are identified as key personnel: *

(*To be completed at time of award)

Labor Category	First/M/Last Name						

H-3 ONR 5252.235-9714 - REPORT PREPARATION (FEB 02)

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-1995, Scientific and Technical Reports: Elements, Organization, and Design.

[NOTE: All NISO American National Standards are available as free, downloadable pdf(s) at http://www.niso.org/standards/index.html. NISO standards can also be purchased in hardcopy form from NISO Press Fulfillment, P. O. Box 451, Annapolis Junction, MD 20701-0451 USA. Telephone U.S. and Canada: (877) 736-6476; Outside the U.S. and Canada: 301-362-6904 ax: 301-206-9789.]

H-4 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)

In accordance with Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), all EIT supplies and services provided under this contract must comply with the applicable accessibility standards issued by the Architectural and Transportation Barriers Compliance Board at 36 CFR part 1194 (see FAR Subpart 39.2). Electronic and information technology (EIT) is defined at FAR 2.101.

H-5 OPTION(S)

The Government may require performance of the numbered line items identified in the Schedule as optional items at the price stated in the Schedule. The Contracting Officer may unilaterally exercise the option by written notice to the Contractor anytime prior to the current completion date of the contract. The Government may elect to exercise its option by issuing a new contract for the option. Except as provided in the schedule, the new contract will have the same terms and conditions as this contract including any unexercised options.

H-6 REPRESENTATIONS AND CERTIFICATIONS

The Contractor's completed Representations, Certifications, and Other Statements of Offerors or Respondents is incorporated herein by reference in any resultant award.

PART II - CONTRACT CLAUSES SECTION I CONTRACT CLAUSES

I-1 52.252-2 - CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

http://www.arnet.gov/far http://heron.nrl.navy.mil/contracts/home.htm

a. FEDERAL ACQUISITION REGULATION CLAUSES

FAR CLAU	SE	TITLE
52.202-1	-	Definitions (DEC 2001)
52.203-3	-	Gratuities (APR 1984)
52.203-5	-	Covenant Against Contingent Fees (APR 1984)
52.203-6	-	Restrictions On Subcontractor Sales To The Government (JUL 1995)
52.203-7	-	Anti-Kickback Procedures (JUL 1995)
52-203-8	-	Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity
		(JAN 1997)
52.203-10	-	Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997)
52.203-12	-	Limitation On Payments To Influence Certain Federal Transactions (JUN 1997)
52.204-4	-	Printed Or Copied Double-Sided On Recycled Paper (AUG 2000)
52.209-6		Protecting The Government's Interest When Subcontracting With Contractors
		Debarred, Suspended, Or Proposed For Debarment (JUL 1995)
52.211-15	-	Defense Priority And Allocation Requirements (SEP 1990)
52.215-2	-	Audit And Records-Negotiation (JUN 1999)
52.215-8	-	Order Of Precedence - Uniform Contract Format (OCT 1997)
52.215-14	-	Integrity Of Unit Prices (OCT 1997)
52.215-17	-	Waiver Of Facilities Capital Cost Of Money (OCT 1997)
		(will be included if the successful offeror does not propose facilities capital cost of
50 545 m		money)
52.216-7	-	Allowable Cost And Payment (FEB 2002) (If the contract is with an educational
		institution, modify the clause by deleting from paragraph (a) "Subpart 31.2" and
		substitute "Subpart 31.3". If the contract is with a state or local government, delete
		from paragraph (a) "Subpart 31.2" and substitute "Subpart 31.6". If the contract is
		with a nonprofit other than an educational institution, a state or local government, or
		a nonprofit organization exempted under OMB Circular A-122, modify the clause by
50.040.0		deleting from paragraph (a) "Subpart 31.2" and substituting "Subpart 31.7".)
52.216-8	-	Fixed-Fee (MAR 1997)
52.219-4	-	Notice Of Price Evaluation Preference For HUBZone Small Business Concerns
EQ 040 0		(JAN 1999) Offeror elects to waive the evaluation preference.
52.219-8	-	Utilization Of Small Business Concerns (OCT 2000)
52.222-2	-	Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized
		Under This Contract If The Overtime Premium Does Not Exceed "0"

52.222-3	-	Convict Labor (AUG 1996)
52.222-21	_	Prohibition Of Segregated Facilities (FEB 1999)
52.222-26	-	Equal Opportunity (APR 2002)
52.222-35	-	Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
52.222-36	_	Affirmative Action For Workers With Disabilities (JUN 1998)
52.222-37	_	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era,
		And Other Eligible Veterans (DEC 2001)
52,223-6	_	Drug-Free Workplace (MAY 2001)
52.223-14	-	Toxic Chemical Release Reporting (OCT 2000)
52.225-13	_	Restrictions On Certain Foreign Purchases (JUL 2000)
52.227-1	_	Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
52.227-2	_	Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
52.227-11	_	Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)
		(will be included if the successful offeror is a small business or a non-profit
		organization)
52.227-12	_	Patent Rights - Retention By The Contractor (Long Form) (JAN 1997)
		(will be included if the successful offeror is not a small business or a non-profit
		organization)
52.228-7	_	Insurance - Liability To Third Persons (MAR 1996)
52.232-9	_	Limitation On Withholding Of Payments (APR 1984)
52.232-17	-	Interest (JUN 1996)
52.232-18	_	Availability Of Funds (APR 1984)
52.232-20	-	Limitation Of Cost (APR 1984) (Applicable when the contract or task order is fully
		funded)
52.232-22	-	Limitation Of Funds (APR 1984) (Applicable when the contract or task order is not
		fully funded)
52.232-23	_	Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
52.232-25	-	Prompt Payment (FEB 2002)
52.232-33	_	Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
52.233-1	-	Disputes (JULY 2002) - Alternate I (DEC 1991)
52.233-3	-	Protest After Award (AUG 1996) - Alternate I (JUN 1985)
52.242-1	-	Notice Of Intent To Disallow Costs (APR 1984)
52.242-13	-	Bankruptcy (JUL 1995)
52.243-2	-	Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
52.244-2	-	Subcontracts (AUG 1998) - Alternate I (AUG 1998)
52.244-5	-	Competition In Subcontracting (DEC 1996)
52.244-6	-	Subcontracts For Commercial Items (MAY 2002)
52.245-5	-	Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour
		Contracts) (JAN 1986) (DEVIATION)
52.246-23	-	Limitation Of Liability (FEB 1997)
52.247-1	-	Commercial Bill Of Lading Notations (APR 1984)
52.247-63	-	Preference For U. S. Flag Carriers (JAN 1997)
52.249-6	-	Termination (Cost-Reimbursement) (SEP 1996)
52.249-14	-	Excusable Delays (APR 1984)
52.251-1	-	Government Supply Sources (APR 1984)

- 52.252-6 Authorized Deviations in Clauses (APR 1984)(fill in <u>Defense Federal Acquisition</u>
 Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 Computer Generated Forms (JAN 1991)

b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES

		,
DFARS CLAU	SE	TITLE_
252.201-7000	-	Contracting Officer's Representative (DEC 1991)
252.203-7001	-	Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related
		Felonies (MAR 1999)
252.204-7003	-	Control Of Government Personnel Work Product (APR 1992)
252.204-7004	-	Required Central Contractor Registration (NOV 2001)
252.209-7000	-	Acquisition From Subcontractors Subject To On-Site Inspection Under The
		Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
252.209-7004	-	Subcontracting With Firms That Are Owned Or Controlled By The Government
		Of A Terrorist Country (MAR 1998)
252.225-7012	-	Preference For Certain Domestic Commodities (APR 2002)
252.225-7031	-	Secondary Arab Boycott Of Israel (JUN 1992)
252.226-7001	-	Utilization of Indian Organizations and Indian-Owned Economic Enterprises-DoD
		Contracts (SEP 2001)
252.227-7000		Non Estoppel (OCT 1966)
252.227-7001	-	Release Of Past Infringement (AUG 1984)
252.227-7013	-	Rights In Technical Data Noncommercial Items (NOV 1995) - Alternate I (JUN
		1995)
252.227-7014	-	Rights In Noncommercial Computer Software And Noncommercial Computer
		Software Documentation (JUN 1995) - Alternate I (JUN 1995)
252.227-7016		Rights In Bid Or Proposal Information (JUN 1995)
252.227-7019	-	Validation Of Asserted Restrictions-Computer Software (JUN 1995)
252.227-7026	_	Deferred Delivery Of Technical Data Or Computer Software (APR 1988)
252.227-7030	-	Technical DataWithholding Of Payment (MAR 2000)
252.227-7034		PatentsSubcontracts (APR 1984)
252.227-7036		Declaration Of Technical Data Conformity (JAN 1997)
252.227-7037		Validation Of Restrictive Markings On Technical Data (SEP 1999)
252.227-7039		PatentsReporting Of Subject Inventions (APR 1990)
252.231-7000	-	Supplemental Cost Principles (DEC 1991)
252.235-7010	-	Acknowledgment Of Support And Disclaimer (MAY 1995)
252.235-7011	-	Final Scientific Or Technical Report (SEP 1999)
252.242-7000		Post Award Conference (DEC 1991)
252.242-7004		Material Management And Accounting System (DEC 2000)
252.243-7002		Requests For Equitable Adjustment (MAR 1998)
252.244-7000	-	Subcontracts For Commercial Items And Commercial Components (DOD
050 045 700 1		Contracts) (MAR 2000)
252.245-7001	-	Reports Of Government Property (MAY 1994)
252.246-7001	-	Warranty Of Data (DEC 1991)
252.247-7023	-	Transportation Of Supplies By Sea (MAY 2002)

Notification Of Transportation Of Supplies By Sea (MAR 2000)

252.247-7024 -

(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)

252.251-7000 - Ordering From Government Supply Sources (MAY 1995)

I-2 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (MAY 2001)

- (a) *Definitions*. "Ozone-depleting substance", as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as
 - (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
 - (2) Class II, including, but not limited to, hydrochlorofluorocarbons.
- (b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING

Contains (or manufactured with, if applicable) *_____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

*The Contractor shall insert the name of the substance(s).

PART III - LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS SECTION J LIST OF ATTACHMENTS

- J-1 Attachment (1) Statement Of Work 5- Pages, With Exhibit A DD Form 1423, Contract Data Requirements List, 2 Pages.
- J-2 Attachment (2) Accounting and Appropriation Data- 1 page. *

(* To be included at time of award)

PART IV - REPRESENTATIONS AND INSTRUCTIONS SECTION - K REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS

K-1 Representations, Certifications, and Other Statements of Offerors or Respondents

Each Offeror must submit a completed Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at http://heron.nrl.navy.mil/contracts/reps&certs.htm

K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAR 2001)

The fill in information is as follows:

The NAICS code for this acquisition is 334511
The small business size standard is. 750 employees

SECTION L INSTRUCTIONS CONDITIONS AND NOTICES TO OFFERORS OR RESPONDENTS

L-1 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

http://www.arnet.gov/far http://heron.nrl.navy.mil/contracts/home.htm

FAR CLAUSE TITLE

52.204-6 - Data Universal Numbering System (DUNS) Number (JUNE 1999)

52.215-1 - Instructions To Offerors- Competitive Acquisition (MAY 2001)

52.215-5 - Facsimile Proposals (OCT 1997)

Paragraph (c) is completed as follows: (202) 767-5896 (primary) or (202) 767-0494 (alternate). In addition proposals may be transmitted by e-mail to toledo@contracts.nrl.navy.mil (primary) or bays@contracts.nrl.navy.mil (alternate) in either Microsoft Word (version 97 or earlier) or pdf format.

52.215-16 - Facilities Capital Cost Of Money (OCT 1997)

DFAR CLAUSE TITLE

252.209-7001- Disclosure Of Ownership Or Control By The Government Of A Terrorist Country (MAR 1998)

L-2 INSTRUCTIONS FOR RECEIPT OF PROPOSALS/OFFERS

All proposals shall be submitted in accordance with FAR 52.215-1- *Instructions to Offerors-Competitive Acquisition*. Proposals/offers submitted in paper media through the United States Postal Service (USPS) or overnight delivery services shall be addressed to:

Contracting Office Naval Research Laboratory(NRL) 4555 Overlook Avenue, S.W. Washington, D.C. 20375

Solicitation/RFP No. - N00173-02-R-AT04

Closing Date: August 30, 2002 Time 4:00 p.m. Local Time

Proposals may be hand delivered to the Contracting Office, NRL, 4555 Overlook Avenue, S.W., Washington, D.C. 20375, Building 222, Room 115 between the hours of 8AM until 4PM, local time, excluding weekends and federal holidays. NRL is a controlled-access facility. Photo identification will be required. Report first to Building 72, Visitor Control for access to NRL. After receiving a Visitor Pass, proceed directly to Building 222, Room 115, Contracting Office Receptionist to deliver the proposal. All offerors shall allow sufficient time for delivery of their proposal to the Contracting Office prior to the closing date and time announced in the solicitation. Directions and additional information about NRL is available at http://www.nrl.navy.mil/aboutdc.htm

If facsimile proposals are authorized, contracting officers may request offeror(s) to provide the complete; original signed proposal at a later date.

L-3 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)

Any contract awarded as a result of this solicitation will be a DX rated order; DO rated order certified for national use under the Defense Priorities and Allocations system (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation.

L-4 FAR 52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997)ALTERNATE IV (OCT 1997)

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described below

See L-14 VOLUME II - BUSINESS PROPOSAL

L-5 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a Cost Plus Fixed Fee Completion contract resulting from

this solicitation.

L-6 FAR 52.222-18 – CERTIFICATION REGARDING KNOWLEDGE OF CHILD LABOR FOR LISTED END PRODUCTS (FEB 2001)

The fill-in information is as follows:

Listed End Product	Listed Countries of Origin

L-7 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)

- (a) Protests, as defined in Section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO) shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from the Control Desk, Code 3200, Bldg. 222, Rm. 115, Naval Research Laboratory, 4555 Overlook Ave., S.W., Washington DC 20375-5326.
 - (b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

L-8 DFARS 252.227-7017 - IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUN 1995)

- (a) The terms used in this provision are defined in following clause or clauses contained in this solicitation—
 - (1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
 - (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.
- (c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be

furnished to the Government with restrictions on use, release, or disclosure.

(d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

Technical Data Computer Software to be Furnished With Restrictions*	Basis for Assertion **	Asserted Rights Category ***	Name of Person Asserting Restrictions****
(List)****	(List)	(List)	(List)

- * For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such items, component, or process. For computer software or computer software documentation identify the software or documentation.
- ** Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.
- **** Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).

 ***** Corporation, individual, or other person, as appropriate.

***** Enter "none" when all data or software will be submitted without restrictions.

Date	
Printed Name and Title	
0:	
Signature	

(End of identification and assertion)

(e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.

(f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the

Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

L-9 DFARS 252.227-7028 - TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT (JUN 1995)

The Offeror shall attach to its offer an identification of all documents or other media incorporating technical data or computer software it intends to deliver under this contract with other than unlimited rights that are identical or substantially similar to documents or other media that the Offeror has produced for, delivered to, or is obligated to deliver to the Government under any contract or subcontract. The attachment shall identify - -

- (a) The contract number under which the data or software were produced;
- (b) The contract number under which, and the name and address of the organization to whom, the data or software were most recently delivered or will be delivered; and
- (c) Any limitations on the Government's rights to use or disclose the data or software, including, when applicable, identification of the earliest date the limitations expire.

L-10 GOVERNMENT-FURNISHED PROPERTY

No material, labor, or facilities will be furnished by the Government unless provided for in the solicitation.

L-11 INQUIRIES CONCERNING THE RFP

Any questions concerning the RFP must be submitted in writing to the Contracting Officer at the location noted in blocks 7 and 9 of the Standard Form 33, "Solicitation, Offer and Award," no less than fifteen (15) days before closing. The Government will not consider questions received after this date. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

L-12 INSTRUCTIONS FOR SUBMISSION AND INFORMATION REQUIRED TO EVALUATE PROPOSALS

- (1) Information for the technical/management proposal shall be placed in Volume I and be completely separate from the business proposal (Volume II).
- (2) Proposal Identification/Mailing The proposal should be packaged for delivery so as to permit safe and timely arrival at destination. The proposal package should be sent to the address shown in Block 7 of the RFP face page and marked:

Solicitation No. N00173-02-R-AT04 Closing Date: (As specified in Block 9, RFP face page) Attn: Code 3220.AT

(3) Proposal Format and Length - No attempt is made to restrict the proposal format and style. However, the proposal should be written and organized so as to be compatible with the RFP,

the Statement of Work, company's organization and accounting structure, and proposed cost estimate. Offerors are encouraged to use recycled paper and maximize the use of double sided copying when preparing responses to solicitations.

L-13 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES.

- (1) Include a matrix indicating proposed labor hours by skill category required to perform the statement of work. This matrix shall not contain labor rates or any other indication of price.
 - (2) The following information is required for evaluation of your technical/management:
 - (a) Technical Approach Provide a clear understanding of the offeror's proposal technical approach including the offeror's understanding of the technical requirement. It should demonstrate knowledge of the nature and scope of this project and the requirements of the statement of work.
 - (b) Personnel Qualifications Indicate the proposed personnel who will work on this project. This information should include both the relevant experience and the academic qualifications of the personnel proposed.
 - (c) Past Performance See PAST PERFORMANCE INFORMATION below
 - (d) Management Indicate the offeror's proposed project management approach. This section should clearly state the proposed schedule as well as demonstrate a complete understanding of the project objectives and constraints.
 - (e) Facilities Indicate what facilities the offeror has which will be used to accomplish the Statement of Work. Any other resources which the offeror intends to be used in this effort should be clearly stated.
 - (f) Corporate Experience Indicate the experience that the offeror has with projects of similar size and scope. The technical breadth of previous efforts should also be indicated. Offeror's should also provide some indication of the quantity and quality of it's experience which is relevant to the proposed effort.

PAST PERFORMANCE INFORMATION

(a) Offerors shall submit the following information as part of their proposal. (Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.) List the last 3 contracts or subcontracts completed by the offeror or predecessor companies during the past 3 years for services similar in nature to this requirement. Include in the 3 any current contracts or subcontracts for similar services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested information for proposed subcontractors that will perform major or critical aspects of the requirement or for the proposed project manager or key personnel

responsible for major or critical aspects of the requirement.

- 1. Name of contracting organization.
- 2. Contract number
- 3. Contract type
- 4. Total contract value
- 5. Description of the contract work
- 6. Contracting officer and telephone number
- 7. Contracting officer's representative, program manager, or similar official and telephone number
- (b) Offerors shall contact the contracting organizations identified pursuant to paragraph (a) as soon as possible and request them to send past performance information on the identified contracts to the address in Block 7 of the face page of this solicitation. The past performance report which is available electronically in full text at http://heron.nrl.navy.mil/contracts/home.htm is to be provided to the contracting organization for this purpose. If the contracting organization has already collected past performance information on the contract pursuant to FAR Subpart 42.15, the format used to collect the information may be used instead of the past performance report.
- (c) Offerors may include in their proposals specific information relating to problems encountered in performing the identified contracts and any corrective actions by the offeror. Offerors should not provide general information on their performance on the identified contracts as this will be obtained from the contracting organizations.

L-14 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES

(1) COST PROPOSAL

The offeror shall submit a business proposal that includes a cost proposal with supporting information for each cost element consistent with offeror's cost accounting system. The supporting breakdown should include such elements as materials, direct labor, indirect cost, and other costs such as travel. The offeror shall provide exhibits as necessary to substantiate each cost element. Should rates be used in the proposal which are not DCAA approved, the offeror shall provide complete documentation and the rationale for their use at time of proposal submission. However, offerors are advised to use actual labor rates of proposed personnel as the basis for estimating labor costs when practicable.

L-15 CRITERIA FOR ALTERNATE PROPOSALS

Proposals submitted in response to this solicitation are not limited to the suggested approaches of the acquisition data furnished. In order to be evaluated, alternate proposals must offer technical improvements or modifications which are to the overall benefit of the Government. Offerors are encouraged to submit alternate proposals containing new ideas, unique approaches or other significant beneficial program improvements. The alternate proposal will be evaluated in accordance with the evaluation criteria. If the alternate proposal is considered most advantageous to the Government but involves a substantive or material departure from the stated basic proposal requirements or the stated evaluation criteria, all offerors shall be given an opportunity to submit new

or amended proposals on the basis of the revised requirements provided this can be done without revealing to the other offerors innovative solutions or techniques or other information entitled to protection from disclosure. The Government reserves the right to award a contract based upon an alternate proposal which meets the government's technical requirements and is otherwise awardable in accordance with the evaluation and award criteria.

SECTION M EVALUATION FACTORS FOR AWARD

M-1 EVALUATION

Award will be made to that offeror whose proposal is determined to be the best value to the Government, proposed cost and other factors considered. The Government reserves the right to make award to other than the low offeror. Although technical considerations are more important than the cost factor, the closer the technical scores of the various proposals are to one another, the more important the business considerations become.

M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the cost factor. Technical subfactor (1) is more than twice as important as subfactors (2) and (3). Subfactors (2) and (3) are four times as important as subfactors (4), (5), and (6) which are of equal importance.

M-2-1. TECHNICAL/MANAGEMENT

(1) TECHNICAL APPROACH

The soundness of the Offeror's technical approach, including the Offeror's understanding of the technical requirement. The approach will be evaluated for a clear understanding of the nature and scope of this project and conformance to the Statement of Work.

(2) PERSONNEL QUALIFICATIONS

The proposed personnel will be evaluated on the experience and qualifications of the proposed personnel relevant to the proposed task. The depth and breadth of the capability offered to successfully complete this task will also be evaluated.

(3) PAST PERFORMANCE

Past performance will be evaluated on the basis of the quality of the work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Section L and other sources if available. The evaluation will take into account past performance information regarding predecessor companies, subcontractors that will perform major or critical aspects of the requirement, or the proposed project manager or key personnel responsible for major or critical aspects of the requirement. Offerors that have no relevant

performance history or for which past performance information is not available will not be evaluated favorably or unfavorably on past performance. The government may begin proposal evaluation prior to receipt of past performance information. If, after completion of proposal evaluation except evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may waive its evaluation in accordance with FAR 15.304(c)(3)(iv).

(4) MANAGEMENT

The soundness of the Offeror's project management approach for accomplishing the task. This will include an evaluation of the proposed schedule for sufficient detail, completeness and an understanding of the project objectives and constraints.

(5) FACILITIES

Adequacy of facilities relevant to the proposed effort will be evaluated.

(6) CORPORATE EXPERIENCE

All aspects of corporate experience on projects of similar size and scope will be evaluated, including technical breadth. The quantity and quality of the Offeror's corporate experience relevant to the proposed task will also be evaluated.

M-2-2 COST TO THE GOVERNMENT

Proposed estimated cost to the Government. The Government may adjust the proposed cost for purposes of evaluation based upon an evaluation of cost realism. Cost Realism means that the costs in an offeror's proposal are realistic for the work to be performed; reflect a clear understanding of the requirements; and are consistent with the various elements of the offeror's technical proposal. The cost realism evaluation includes an analysis of the adequacy of the hours, labor mix, and other direct costs to perform the work as proposed in the technical proposal as well as the proposed labor and indirect rates. It also includes evaluation of the likelihood that the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

M-3 FAR 52.217-5 - EVALUATION OF OPTIONS (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

Statement of Work

Interactive Graphical User Interface Controlled Data Acquisition System (DAS) and Graphical User Interface Software Controlled Archival System

1.0 Background

The Naval Research Laboratory (NRL) has a requirement for an interactive graphical user interface controlled Data Acquisition System (DAS) and graphical user interface Software Controlled Archival System.

NRL is in the process of designing/fabricating a radar system to be flown aboard an Unmanned Aerial Vehicle (UAV), and is currently designing a prototype, proof of concept, radar system. This radar system, which will be an L band system is to be flown aboard an airborne platform as well as carried on a truck. The antenna will consist of 8 transmit elements and 16 receive channels.

2.0 Scope

The contractor shall provide an interactive graphical user interface controlled Data Acquisition System (DAS), and graphical user interface software controlled archival system for NRL's prototype radar.

NRL's Radar system will provide sixteen intermediate frequency analog signals, at 45 Megahertz (Mhz) with a 10 Mhz bandwidth, to be digitized, decimated and archived; one 60 Mhz clock signal to clock the A/D's; and one digital low voltage TTL (3.3 V high signal) start/stop signal for the acquisition range window. The signal will go high to enable digitizing and the signal will go low to stop the digitizing.

- 3.0 Radar Data Acquisition System Requirements
- 3.1 General System Requirements:
- a. The contractor shall provide a fully integrated (turn-key) data acquisition system.
 - b. The data acquisition system shall be comprised of commercial off the shelf (COTS) products.
 - c. The data acquisition system (not including bulk storage) shall be provided in a single, 19 inch rack mountable 6U Versa Module Europa (VME) chassis.

- d. All Input/Output (I/O) shall be made to the rear of this chassis via clearly labeled connectors.
- e. The data acquisition system shall operate from standard 110 Volt, 60 Hertz (Hz) power.
- f. The bulk storage shall be provided in a 19 inch rack mountable chassis.

3.2 Acquisition System

- a. The contractor shall provide a system capable of Acquiring/Digitizing 16 Analog Intermediate Frequency (IF) signals synchronously.
- b. Each channel shall have a clearly labeled sub-miniature type A (SMA) connector at the rear of the chassis.
- c. The sub-system shall consist of 8 identical sub-systems each containing two 14 bit Analog-to-Digital (A/D) converters i.e. 2 Analog Channels per sub-system. This will insure NRL of sufficient scalability and modularity as NRL may not choose to purchase all 16 channels at the time of the initial buy.
- d. Each analog acquisition channel shall be externally clocked at a rate capable of acquiring 30 Mhz of Analog Bandwidth.
- e. The system shall be externally gated with an external Low Voltage Transistor Transistor Logic (LVTTL) gate signal which NRL will supply.
- f. The input impedance shall be 50 ohms.
- g. The full-scale input voltage shall be +4 dBm, 1 Volt peak-to-peak into 50 Ohms.
- h. The 3 decibel (dB) passband shall be 60 kHz to 300 Mhz.
- i. The input return loss (Absolute Reflection Coefficient) shall be a minimum of 13.83 dB (at 300 Mhz) to 43.47 dB maximum (at 10.8 Mhz). The A/D converters shall have a maximum sampling rate of no less than 80 Mhz.
- j. The A/D converters shall have a minimum of 14 bits.
- k. Each A/D converter shall contain an on board crystal oscillator, a front panel external clock input or a low voltage differential signal (LVDS) clock (for chaining) selectable via software.

3.3 Data Processing

- a. Each pair of 14 bit digitized inputs shall be electrically routed to a Virtex II FPGA, XC2V3000-6 which the contractor must supply.
- b. NRL will supply all of the logic that will go into this field programmable gate array (FPGA), however the contractor shall provide a complete list of all required tools to develop this logic and download this logic into the FPGA.
- c. The contractor shall provide a full list of VIRTEX II FPGA pins that are available for NRL programming along with information as to how to access them on the provided hardware.
- d. The FPGA shall (among other functions) decimate the digitized data. The output rate from each of the two channels (per the required sub-system) shall be 39.36 Mbytes/Second, for a total of 78.72 Mbytes/Second from the FPGA to a storage medium.
- e. Sufficient bus bandwidth, RAM, and processor power shall be available to acquire a minimum of 16.8 seconds of data from all channel pairs.
- f. The Data Processing Sub-system shall contain a Fiber Channel interface to the Bulk Storage Sub-System. The Data Processing Sub-System shall empty the data contents of its RAM as fast as possible but shall never interfere with the acquisition sub-system in such a way that any data is lost.

3.4 Bulk Storage

- a. The delivered system shall contain a single, 19 inch rack mountable Redundant Arrays of Inexpensive Disks (RAID) capable of storing a minimum of 300 Gbytes of data.
- b. The bulk storage shall have a 1 Gbit Fibre Channel input.
- c. The bulk storage sub-subsystem shall contain a Fibre Channel Switch, which will allow for future system expansion but also provide a means for data retrieval from a host computer.

3.5 Host Control

a. The Operator of the System shall be able to control the system from a Graphical User Interface (GUI) which will run from a Sun CPU-50 Running Solaris.

- b. The host computer shall have ports for a monitor, keyboard, and mouse to run and interact with the GUI.
- c. The Video card shall be capable of a resolution of at least 1024x768 at a color depth of 16 bits.
- d. The host shall be able to retrieve the saved data from the RAID via a Fibre Channel Interface.
- e. The Operator shall be able to control the following parameters from this GUI:
 - Start Acquisition
 - Stop Acquisition
 - Reset Acquisition, and save Captured Data to the RAID
 - Reset Acquisition, and not save Captured Data
 - Reset and Synchronize all Acquisition First In, First Outs (FIFOs)
 - Determine how much space is left on the RAID
 - Dub data from the RAID to the host computer
 - Archive the captured data from the RAID to tape or other Archival System

3.6 Software Requirements

- a. If a Processor is used to move the decimated data from the FPGA to Random Access Memory (RAM) or from the RAM to the Bulk Storage Sub-System, a well-known Real Time OS such as VXWorks shall be used.
 - b. The Operator shall be able to control the following parameters from this GUI:
 - Start Acquisition
 - Stop Acquisition
 - Reset Acquisition, and save Captured Data to the RAID
 - Reset Acquisition, and not save Captured Data, discard data
 - Reset and Synchronize all Acquisition FIFOs
 - Determine how much space is left on the RAID
 - Dub data from the RAID to the host computer.
 - Archive the captured data from the RAID to tape or other Archival System

4.0 Testing

Verification of the system performance shall be in accordance with the system performance procedure developed and submitted by the contractor 30 days after contract award.

5.0. Technical consulting during the installation procedure and verification of the system.

Technical NRL will install the system and may require technical support via telephone.

6.0 Deliverables

- 6.1 Interactive Graphical User Interface Controlled Data Acquisition System and Graphical User Interface Software Controlled Archival System
- 6.2 Manufacturer's specifications on all systems and subsystems
- 6.3 Performance Verification Test Procedures for the overall systems and subsystems

6.4 Software

All software that was developed by the vendor, which was developed specifically for this effort, shall be provided to NRL in source code form along with information pertaining to compiling the software, i.e. make files, compiler information, etc. All software shall be fully commented to enable NRL to add and or modify in order to control the Radar that is supplying data to the DAS.

CONTRACT DATA REQUIREMENTS LIST

Form Approved

OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to everage 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Hasdquarters Services, Directorate for information Operations and Reports (0701-0188),1215 Jafferson Davis Highway, Suits 1204, Artington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for falling to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. listed in Block E.

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